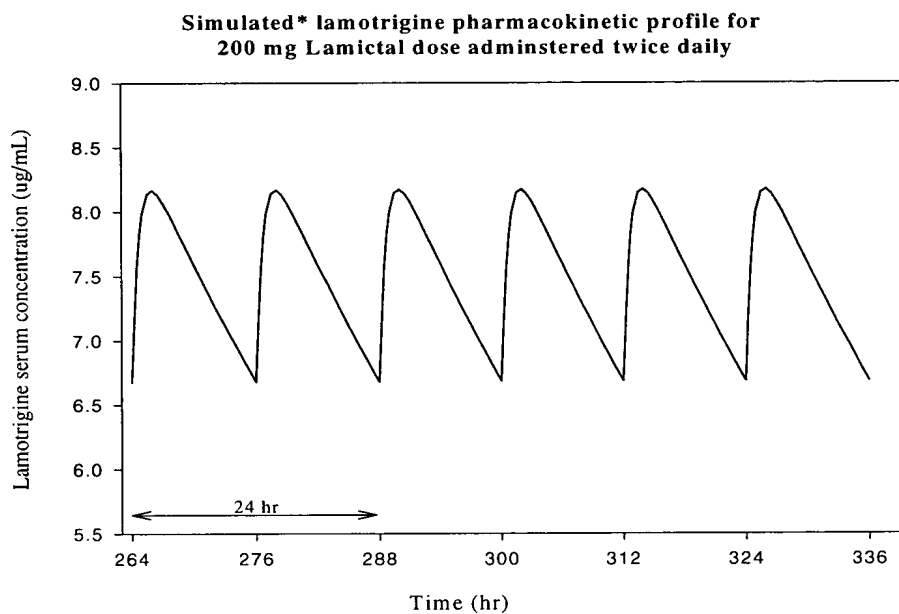


Figures

Figure 1 – Simulated lamotrigine pharmacokinetic profile for 200mg lamotrigine (Lamictal™) dose administered twice daily.



*Simulated profile over a 12 hr interval agrees closely
with that observed in healthy volunteers

Figure 2. Dissolution profile of three different batches of lamotrigine (Lamictal™) 150mg tablets.

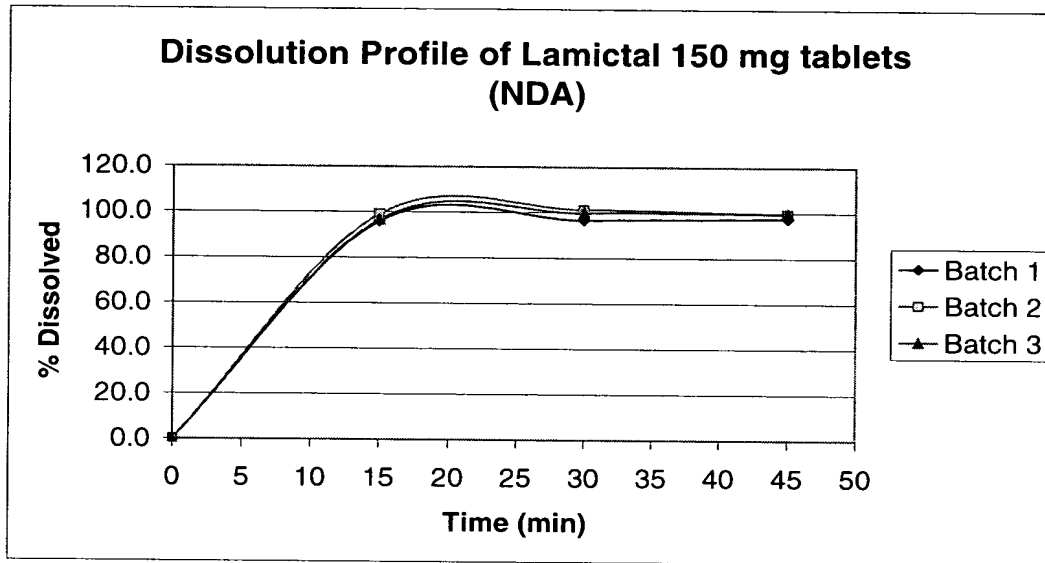


Figure 3a: Matrix Tablet From Example 1 with 35% Polymer

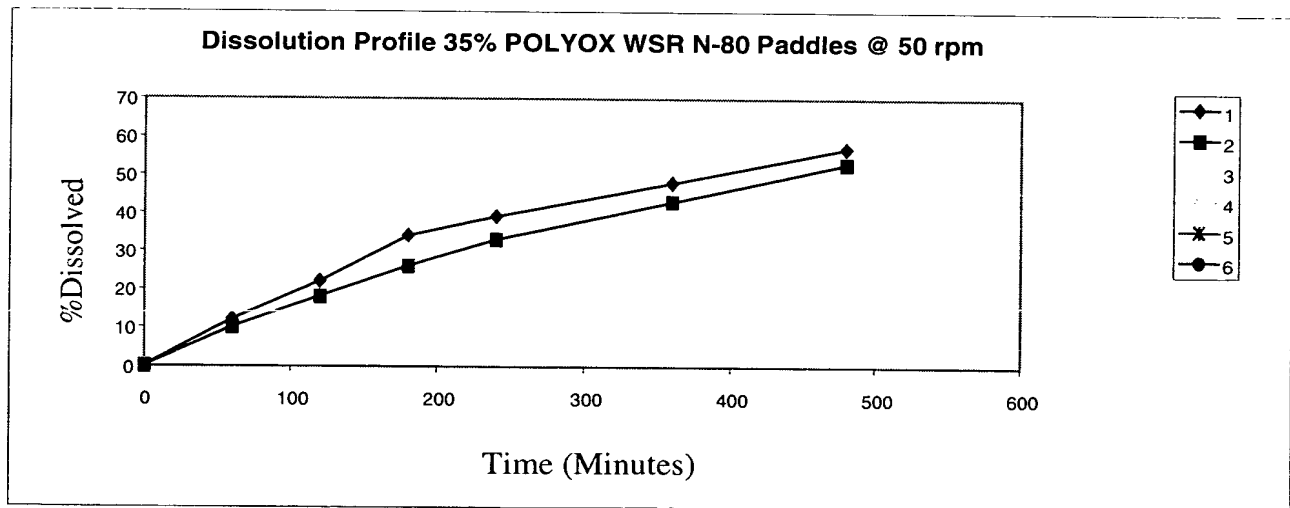
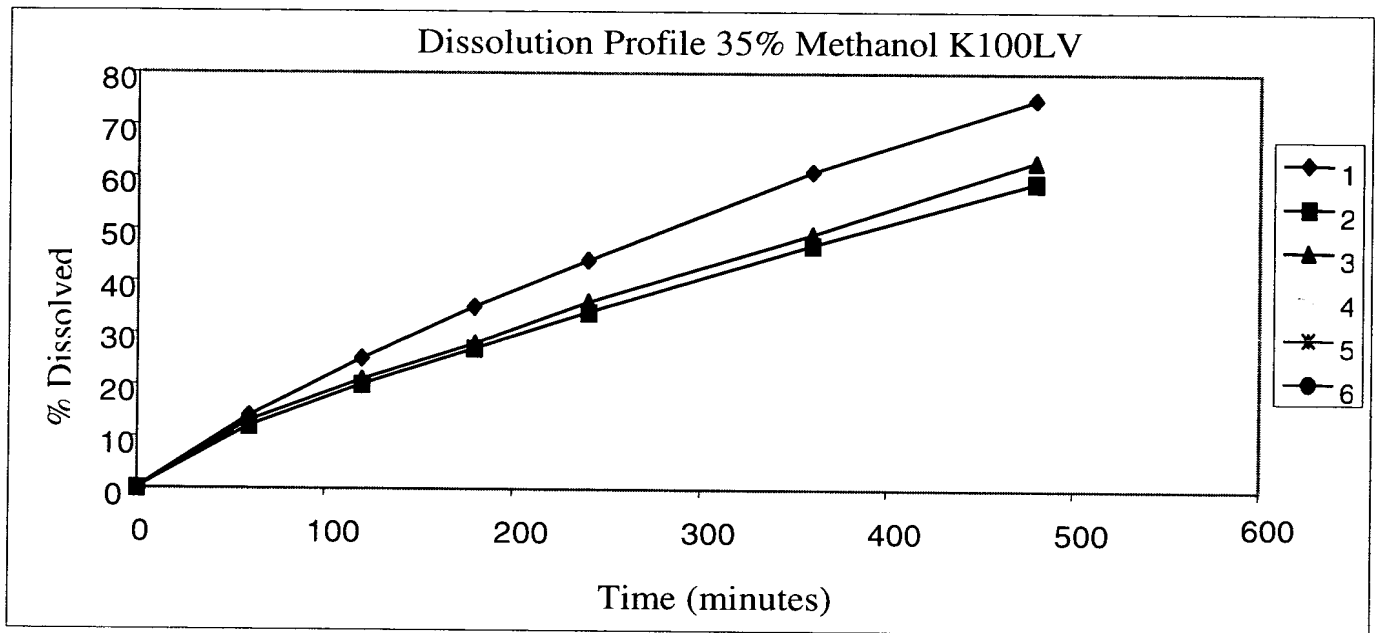
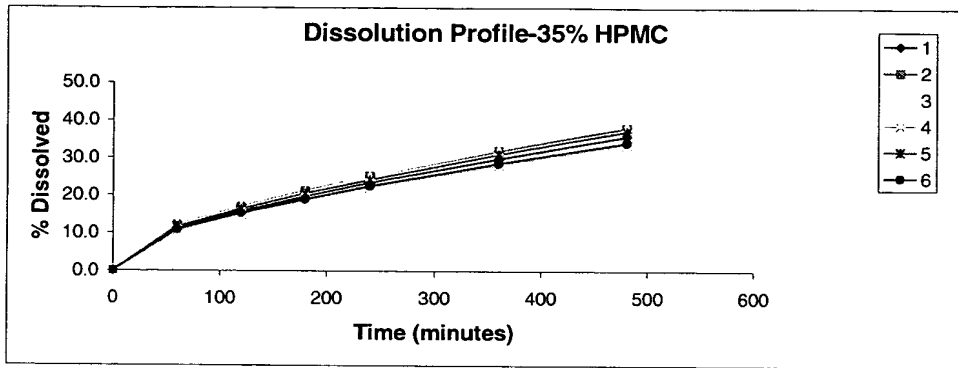


Figure 3b) Matrix Tablets from Example 1 with 25% polymer

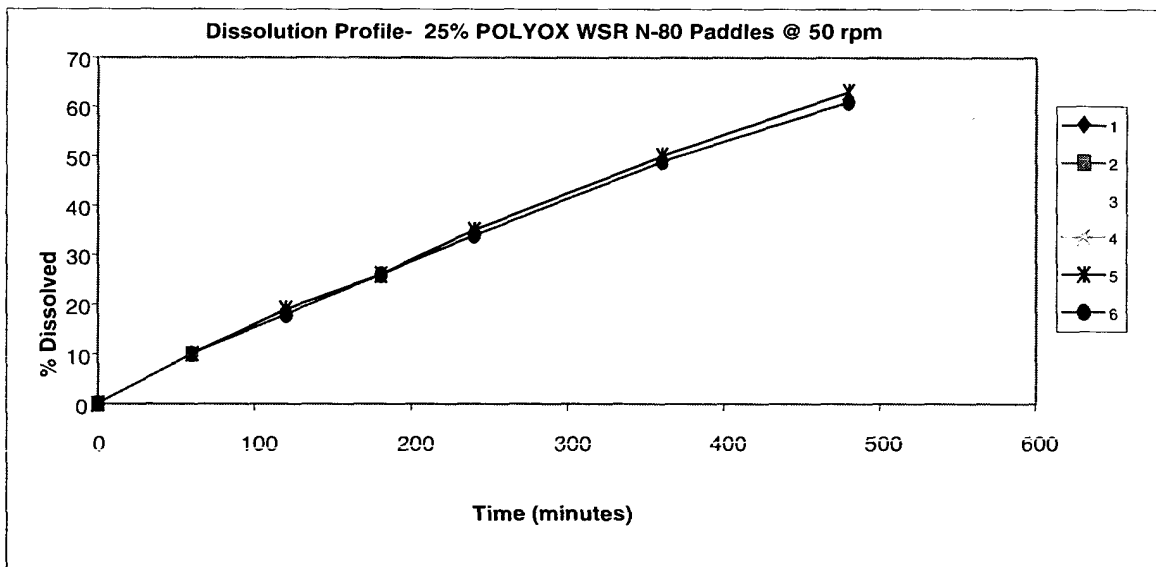
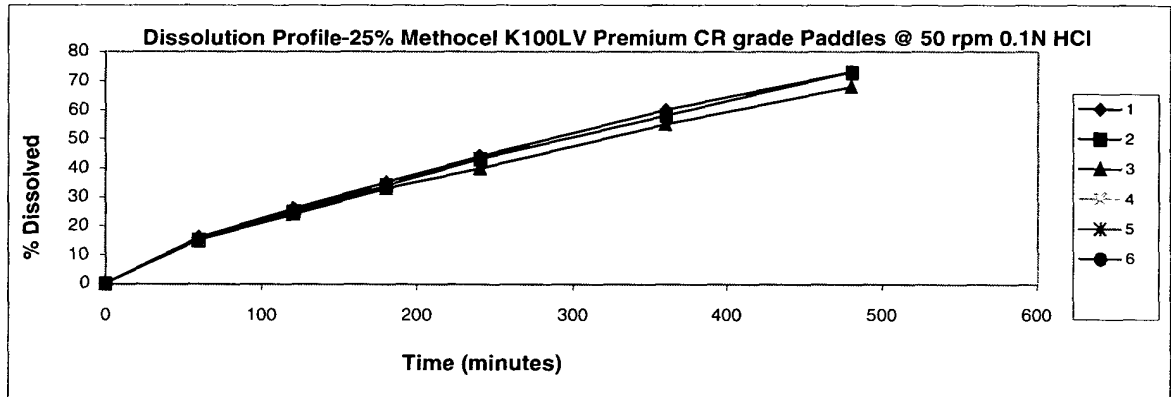
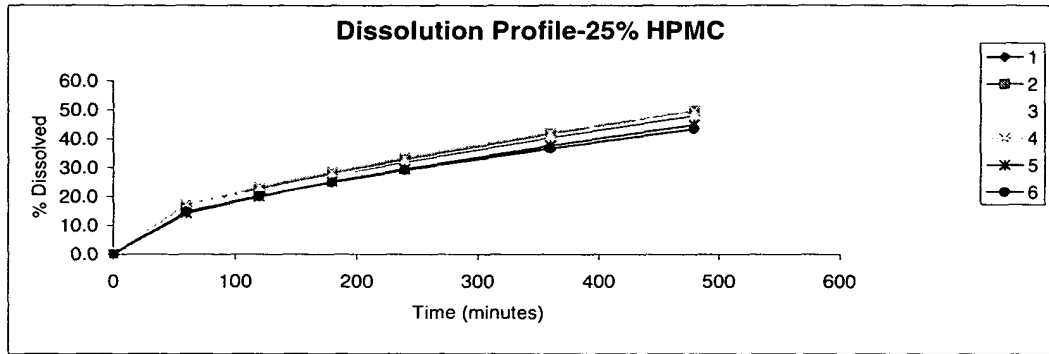
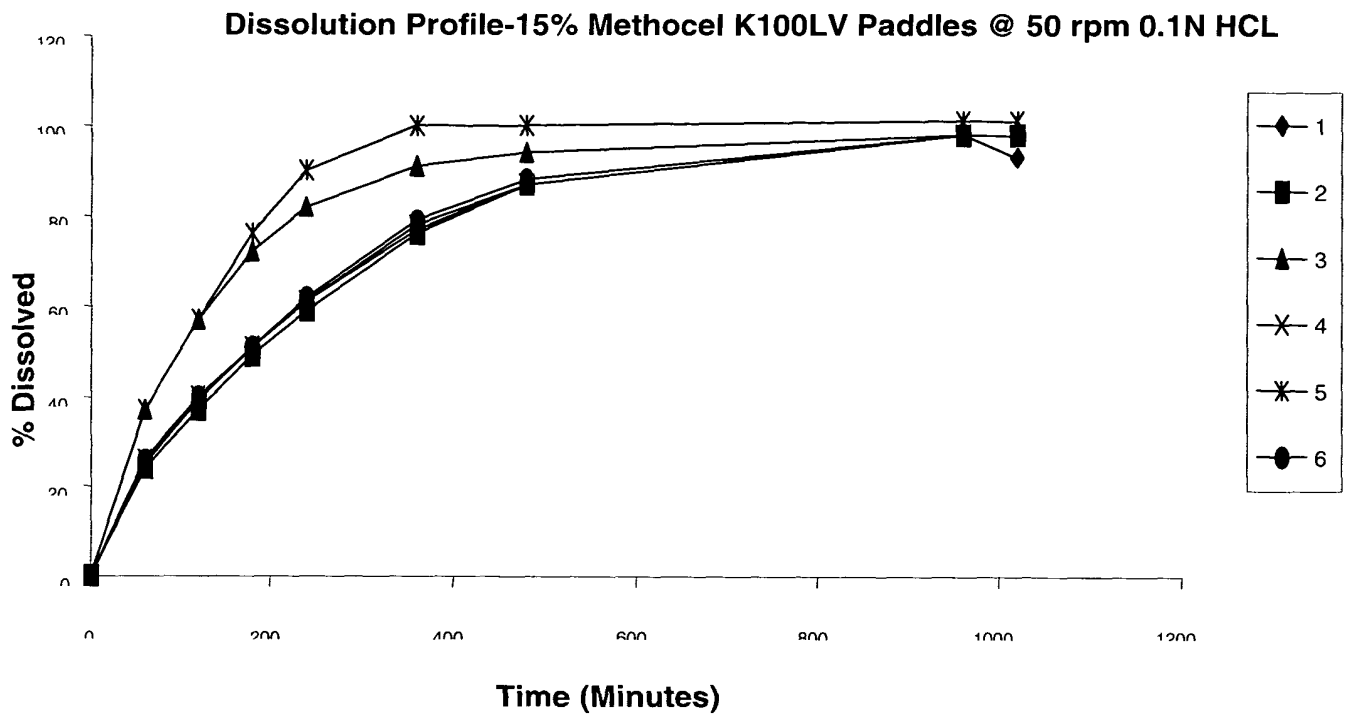
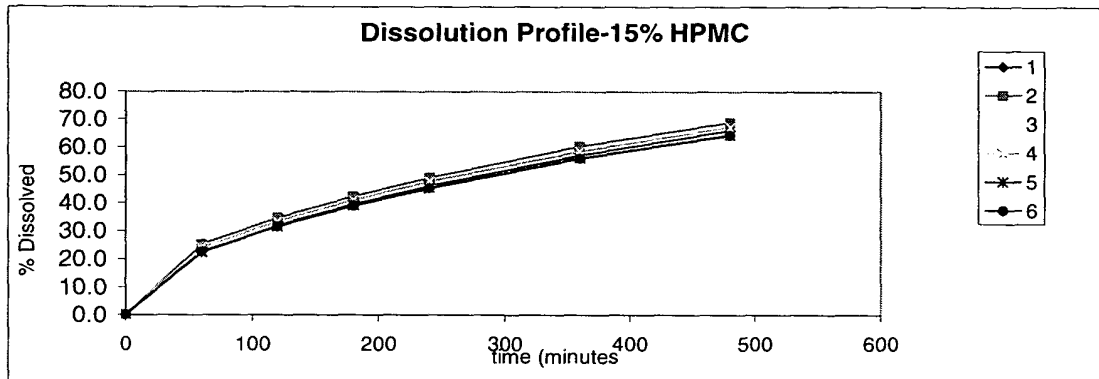


Figure 3c) Matrix tablets from Example 1 with 15% polymer



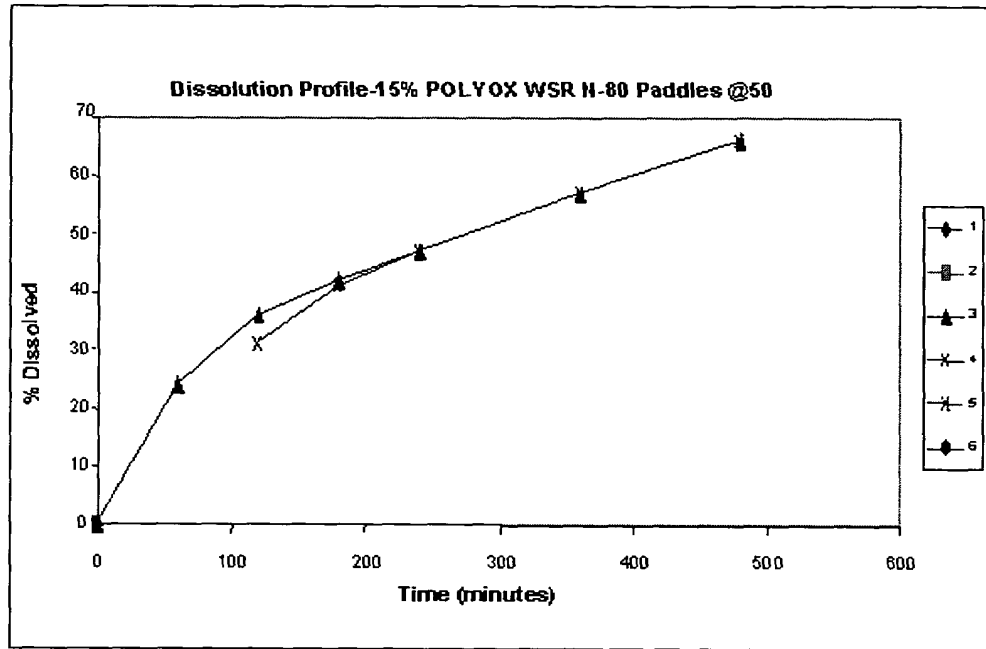
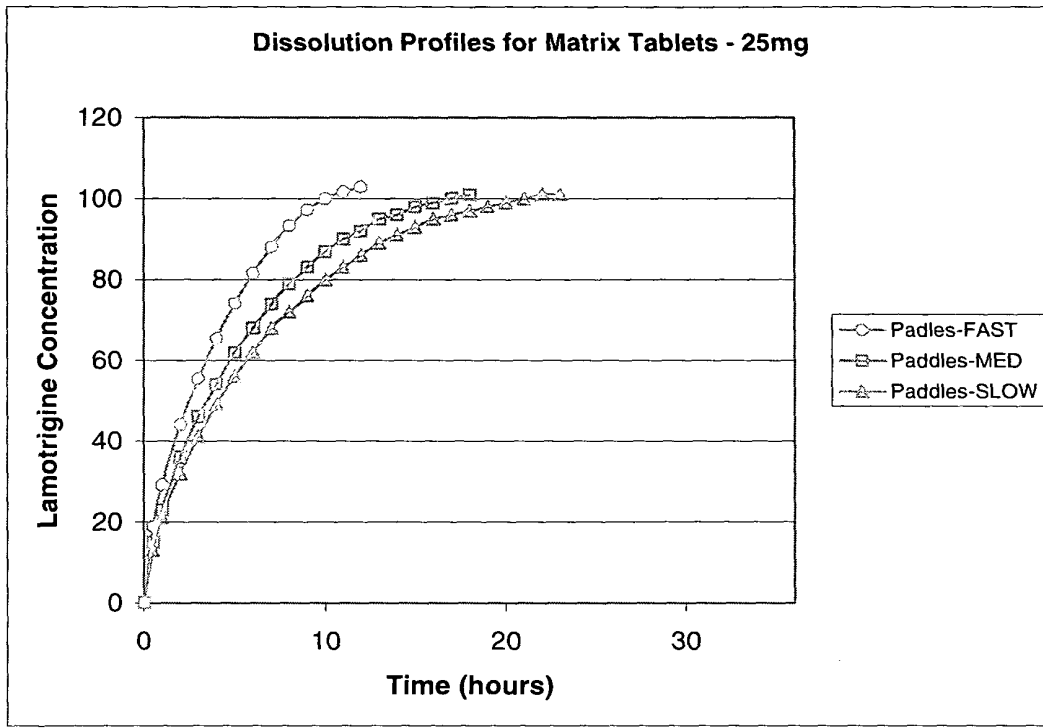
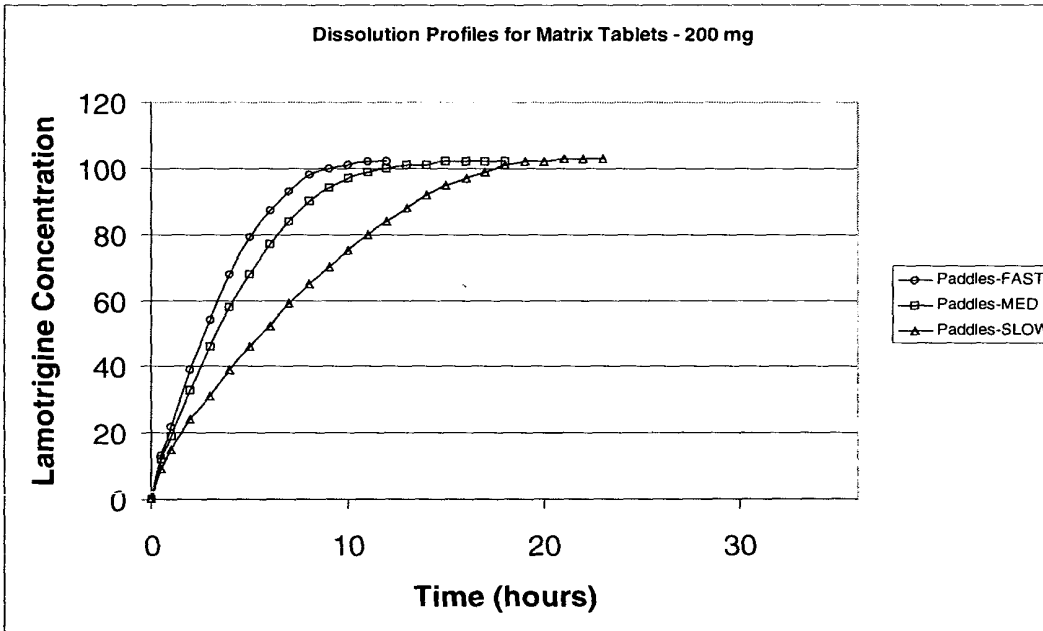


Figure 4. Dissolution profile from the matrix tablet of Example 2b.



"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b

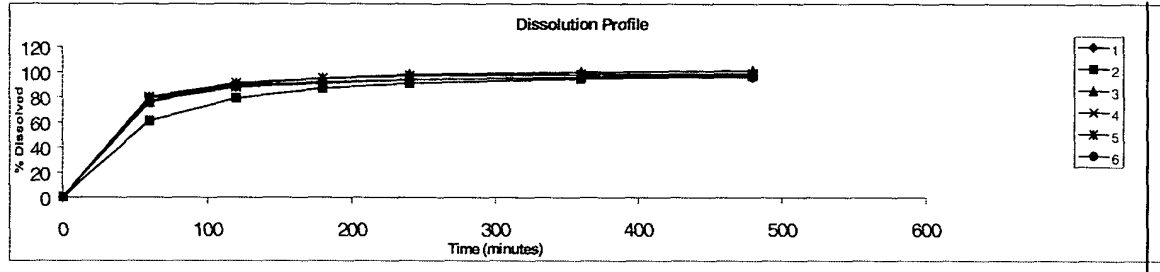


"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b

Figure 5 – Dissolution Profile for tablets with 3% and 5% weight gain with a 80%Surelease, 20%Opadry coating.

Lamotrigine Sustained Release
80%Surelease 20% Opadry 3% weight gain

5



Lamotrigine Sustained Release
80% Surelease 20% Opadry 5 % weight gain

10

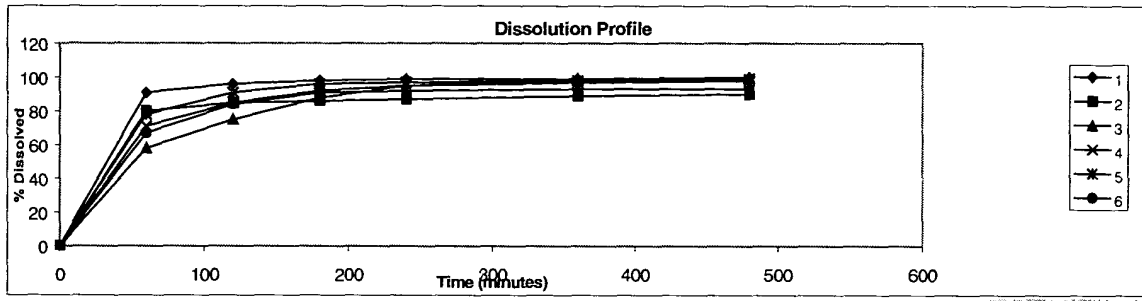
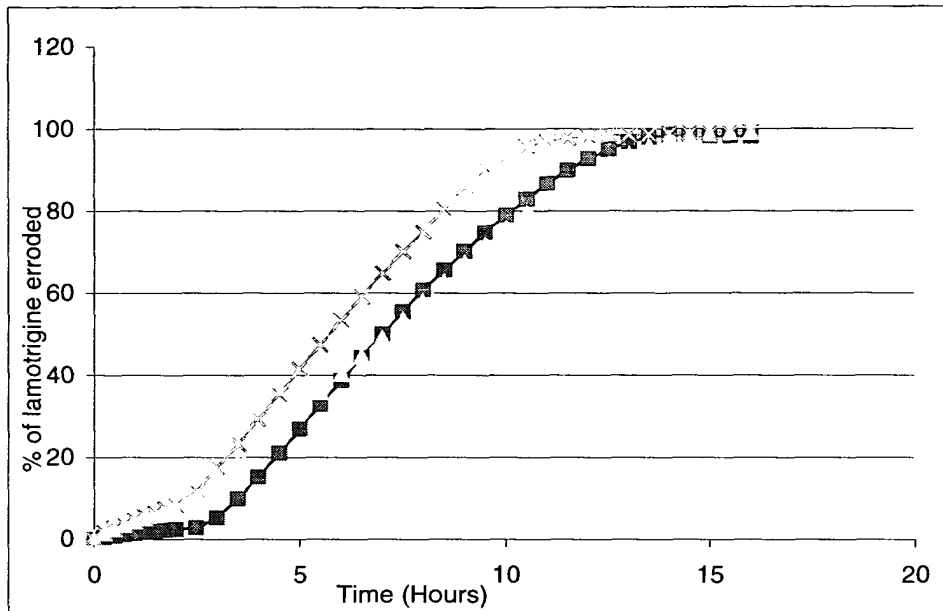


Figure 6: Dissolution profile of Lamotrigine DiffCORE tablets 25 mg and 200mg.



X – represents 25mg fast

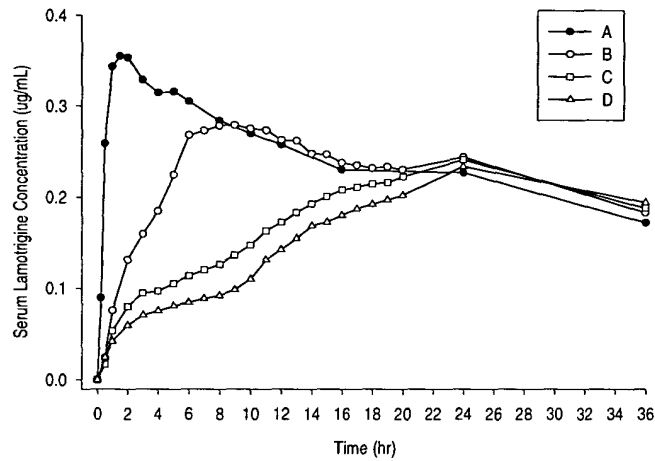
▲ - represents 25 mg slow

5 ■ - represents 200mg slow

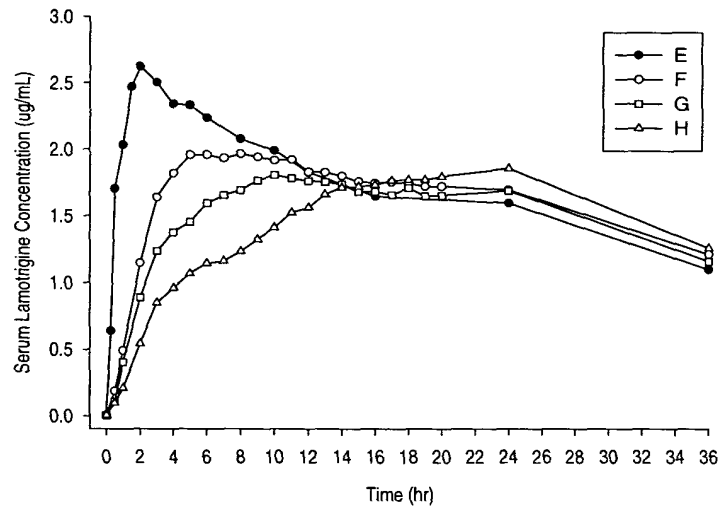
Figure 7:

Serum Lamotrigine Concentration over a 0 – 36 hour period for 25mg and 200mg matrix tablets of lamotrigine (Example 2) compared with the standard commercially available instant release (IR) tablets.

25 mg



200 mg



| | | | |
|---|--|---|--|
| A | LAMICTAL IR 25mg | E | LAMICTAL IR 200mg |
| B | LAMICTAL 25 mg matrix tablet - fast release –6 hour | F | LAMICTAL 200 mg matrix tablet – fast release - 6hr release rate |
| C | LAMICTAL 25mg matrix tablet - medium release rate - 12hr release rate | G | LAMICTAL 200mg matrix tablet – medium release rate -12hr release rate |
| D | LAMICTAL 25mg matrix tablet – slow – release rate - 16hr release rate | H | LAMICTAL 200mg matrix tablet – slow release rate- 16hr release rate |